

# THE TZUY TURBINE

## NUMBERS AND NAMES FOR EASY REFERENCE

# 1 - ROTOR - is the rotating part of the turbine that rotates inside the housing or casing 2 by means of the powerful force of the working fluid 27 that is exerted on the power side of the blade 13.

# 2 - HOUSING OR CASING - is the stationary part of the turbine in which the rotor 1 spin or rotate inside it.

# 3 - RIGHT COVER of the housing or casing. It's part of the turbine that supports one shaft of the rotating rotor whether it's solid shaft or hollow shaft.

# 4 - LEFT COVER of the housing or casing. It has the same function like the right cover that supports steadily the rotating shaft of the rotor.

# 5 - INTAKE PIPE - It's a pipe wherein the working fluid pass through it to enter inside the turbine.

# 6 - EXHAUST PIPE - It's a pipe in which the used fluid pass through it and discharged it outside the turbine.

# 7 - INTERNAL EXIT CHAMBER - It's a chamber in which the used fluid enters due to the action of the squeezing blade.

# 7a - RECTANGULAR OPENING OR LEFT VALVE on the exhaust side of the rotor. This is where the used fluid enters a valve or rectangular opening 7a on the left side of the rotor.

# 7b - RECTANGULAR OPENING OR RIGHT VALVE of the rotor located in the right exhaust side. This is a valve or rectangular opening in the right side of the rotor where the used fluid enters due to the squeezing action of the rotor's blade.

# 8 - INTERNAL ENTRANCE CHAMBER - This is a chamber in the inner part of the rotor where the working fluid flow from external entrance chamber 11 to internal entrance chamber 8 ready to push the power side of the protruding blade in a rotary motion.

# 8a - RECTANGULAR OPENING OR LEFT VALVE of the rotor on the left power side. The working fluid from internal entrance chamber 8 will flow outward to the left valve 8a to push the protruding blade on the left power side of the rotor.